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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/015,778	12/17/2001	Douglas D. Sjostrom	02-35-0385 / 00167-456001	4406
7590 JOEL R. PETROW Smith & Nephew, Inc. 1450 Brooks Road Memphis, TN 38116			EXAMINER NGUYEN, VI X	
			ART UNIT 3734	PAPER NUMBER
			MAIL DATE 02/22/2008	DELIVERY MODE PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Office Action Summary	Application No. 10/015,778	Applicant(s) SJOSTROM, DOUGLAS D.	
	Examiner Victor X. Nguyen	Art Unit 3734	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 26 October 2007.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 25-59,64,65,70-77 and 82 is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) ☐ Claim(s) _____ is/are allowed.
- 6) ☒ Claim(s) 25-59,64,65,70-77 and 82 is/are rejected.
- 7) ☐ Claim(s) _____ is/are objected to.
- 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on _____ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some * c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
 2. ☐ Certified copies of the priority documents have been received in Application No. _____.
 3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- | | |
|--|---|
| 1) <input checked="" type="checkbox"/> Notice of References Cited (PTO-892) | 4) <input type="checkbox"/> Interview Summary (PTO-413) |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948) | Paper No(s)/Mail Date. _____ |
| 3) <input checked="" type="checkbox"/> Information Disclosure Statement(s) (PTO/SB/08) | 5) <input type="checkbox"/> Notice of Informal Patent Application |
| Paper No(s)/Mail Date <u>10/26/2007</u> . | 6) <input type="checkbox"/> Other: _____ |

DETAILED ACTION

1. The request filed on 10/26/2007 for Continued Examination (RCE) under 37 CFR 1.114 based on parent Application No. 10/015,778 is acceptable and a RCE has been established. An action on the RCE follows.

Claim Rejections - 35 USC § 102

2. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

Claims 25-43,45-59,64-65 and 82 are rejected under 35 U.S.C. 102(b) as being anticipated by Bachir (U.S.5,660,186).

Bachir discloses in figs. 2,4, a cutting instrument having the limitations of the above listed claims, including: a cutting instrument comprises an outer member (12) has an opening bounded by a sharp cutting edge (22), where a helical knife (14) coupled to the outer member for rotation relative to the outer member. The helical knife would inherently have an edge to slide into tough, fibrous tissue to draw the tissue proximally along the helical knife towards the sharp cutting edge. As best seen in figure 4, the helical knife edge is arranged relative to the cutting edge such that the edges align in a plane perpendicular to a longitudinal axis of the instrument which is able to create a shearing action therebetween. Further, it is noted that fig. 4 of Bachir can be clearly defined an inner member 30 including a shaft having a helical knife with a v-

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shaped (v-shaped is considered from the curve segment between element 38 and element 42) that defined a sharp, slicing edge which is perpendicular to a longitudinal extent of the slicing edge.

Regarding claims 26-27, wherein the edge of helical knife extends distally through the opening at element 14 which extends out from the sharp cutting edge 22; and where the cutting edge and the edge of helical knife configure to cut tissue.

Regarding claims 33-34 and 50-51, where the device further includes a hub or a handle (44), and the cutting edge is located at a distal end of the outer member. The outer member tapers to the cutting edge (fig.2). Furthermore, at best seen in figure 1, the pitch of the helical channel increases from distal end to the proximal end.

Claims 25-41,59,64 and 70-77 are rejected under 35 U.S.C. 102(b) as being anticipated by Evans (U.S.5,007,917).

Evans discloses in fig 1, a cutting instrument 11 having the limitations of the above listed claims, including: a cutting instrument comprises an outer member (13) has an opening bounded by a sharp cutting edge (35,45), where a helical knife (17) coupled to the outer member for rotation relative to the outer member. The helical knife would inherently has an edge to slide into tough, fibrous tissue to draw the tissue proximally along the helical knife towards the sharp cutting edge. As best seen in figure 6, the helical knife edge is arranged relative to the cutting edge such that the edges align in a plane perpendicular to a longitudinal axis of the instrument which is able to create a shearing action therebetween. Furthermore, the cutting instrument has an inner member 27 which defines an aspiration opening therein (see col. 3, lines 34-41), the aspiration opening locates at a proximal portion of the helical knife, and it is noted that either

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side 21 considered a shield portion extending from the sharp cutting edge. Regarding claims 70-77, Evans discloses the tough, fibrous tissue can comprise cartilage, fibroid tissue or meniscal cartilage as claimed in, col.2, lines 12-45.

Claim Rejections - 35 USC § 103

3. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

Claim 44 is rejected under 35 U.S.C. 103(a) as being unpatentable over Bachir (U.S. 5,660,186).

Bachir discloses the invention substantially as claimed. Although, Bachir is silent regarding the inner member and the outer member is in the range of about 0.0005 to 0.002 inches. It would have been obvious matter of design choice to modify the inner member and the outer member is in the range of about 0.0005 to 0.002 inches, since it has been held that where the general conditions of a claim are disclosed in the prior art, discovering the optimum or workable ranges involves only routine skill in the art. In re-Aller, 105 USPQ 233.

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Victor X. Nguyen whose telephone number is (571) 272-4699. The examiner can normally be reached on M-F (8-4.30 P.M).

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If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Ho Jackie can be reached on (571) 272-4697. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

Victor X Nguyen
Examiner
Art Unit 3734

VN
2/13/2008

/ (Jackie) Tan-Uyen T. Ho/
SPE of Art Unit 3773